

Recombinant Human MTSS1 Protein (aa1-250, His & MBP Tag)



Catalog Number:PKSH030739

Note: Centrifuge before opening to ensure complete recovery of vial contents.

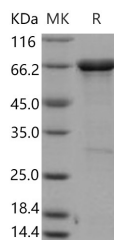
Description

| | |
|------------------------------------|---------------|
| Synonyms | MIM;MIMA;MIMB |
| Species | Human |
| Expression Host | E.coli |
| Sequence | Met 1-Ser 250 |
| Accession | EAW92073.1 |
| Calculated Molecular Weight | 71.8 kDa |
| Observed molecular weight | 66 kDa |
| Tag | N-His-MBP |

Properties

| | |
|-----------------------|---|
| Purity | > 80 % as determined by reducing SDS-PAGE. |
| Endotoxin | Please contact us for more information. |
| Storage | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| Shipping | This product is provided as lyophilized powder which is shipped with ice packs. |
| Formulation | Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual. |
| Reconstitution | Please refer to the printed manual for detailed information. |

Data



> 80 % as determined by reducing SDS-PAGE.

Background

MTSS1 (Metastasis suppressor 1), also known as Missing in metastasis (MIM), is a tissue-specific regulator of plasma membrane dynamics. MTSS1 is well described for its function as a metastasis suppressor gene and is expressed in a variety of tissues. MTSS1 might be involved in shaping neuronal membranes in vivo. MTSS1 deforms phosphoinositide-rich membranes through its I-BAR domain and interacts with actin monomers through its WH2 domain. MTSS1/MIM was first identified as a metastasis suppressor missing in metastatic bladder carcinoma cell lines. MTSS1 is a prognostic indicator of disease-free survival in breast cancer patients and demonstrates the ability to play a role in governing the metastatic nature of breast cancer cells. MTSS1 may serve as a useful biomarker for the prediction of outcome of gastric cancer. The down-regulation of MTSS1 that may be caused by DNA methylation was also observed in many other types

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of cancer. Recent work proposed that MIM also potentiates Sonic hedgehog (Shh)-induced gene expression. MTSS1 as a multiple functional molecular player and has an important role in development, carcinogenesis and metastasis.

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